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PATENT

Docket: CU-4288

Application Serial No. 10/540,892

Reply to Notice of Non-Compliant Amendment dated February 23, 2009

Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (currently amended) An apparatus for transmitting data in a digital broadcasting system, comprising:

a source encoding means unit for encoding data to be transmitted and generating source-coded data;

a capacity managing means unit for dividing the source-coded data into divided data for a plurality of channels ~~in case that an available data capacity for transmitting the source-coded data does not exist in one channel but sum of available data capacities of several channels can accommodate the source-coded data, and adding generating~~ header information corresponding to the divided data;

a channel encoding means unit for encoding the divided data according to channel environment and generating channel-coded data; and

a transmitting means unit for multiplexing, modulating and transmitting the channel-coded data through multiple frequency bands and multiple broadcasting sites.

2. (currently amended) The apparatus as recited in claim 1, wherein the capacity managing means unit stores information of available capacity and unavailable capacity for each frequency band, divides the source-coded data in case that an available data capacity for transmitting the source-coded data does not exist in one channel but sum of

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the available data capacities of multiple channels can accommodate the source-coded data, and adds the header information ~~to the divided data~~ in a data packet so as to reconstruct the data in the receiving apparatus.

3. (withdrawn) An apparatus for receiving data in a digital broadcasting system, comprising:

a tuning means for receiving transmitted data through multiple frequency bands and multiple broadcasting sites;

a demodulating means for demodulating the received data and generating demodulated data;

a de-multiplexing means for de-multiplexing the demodulated data and generating de-multiplexed data;

a decoding means for decoding the de-multiplexed data and generating decoded data; and

a data combining means for combining the decoded data.

4. (withdrawn) The apparatus as recited in claim 3, wherein the combining means combines the data based on header information that is included in the decoded data.

5. (currently amended) A method for transmitting data in a digital broadcasting system, comprising ~~the steps of~~:

(a) encoding image data and audio data to be transmitted and generating source-coded data;

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(b) ~~at-a-capacity-managing-means~~, dividing the source-coded data into divided data for a plurality of channels ~~in case that an available data capacity for transmitting the source-coded data does not exist in one channel but sum of available data capacities of multiple channels can accommodate the source-coded data~~, and adding generating header information corresponding to the divided data;

(c) channel encoding the divided data according to channel environment and generating channel-coded data; and

(d) multiplexing, modulating and transmitting the channel-coded data through multiple frequency bands and multiple broadcasting sites.

6. (currently amended) The method as recited in claim 5, wherein the ~~capacity managing-means stores~~ dividing the source-coded data includes storing information of available capacity and unavailable capacity for each frequency bands, divides and dividing the source-coded data in case that an available data capacity for transmitting the source-coded data does not exist in one channel but sum of available data capacities of the multiple channels can accommodate the source-coded data, and adds wherein the header information is used in a data packet so as to reconstruct the data in the receiving apparatus.

7. (withdrawn) A method for receiving data in a digital broadcasting system, comprising the steps of:

(a) receiving transmitted data through multiple frequency bands and multiple

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broadcasting sites;

- (b) demodulating the received data for each frequency band and generating demodulated data;
- (c) de-multiplexing the demodulated data for each frequency bands and generating de-multiplexed data;
- (d) decoding the de-multiplexed data for each frequency bands and generating decoded data; and
- (e) at combining means, combining the decoded data.

8. (withdrawn) The method as recited in claim 7, wherein the combining means combines the data based on header information that is included in the decoded data.